

IN THE SPECIFICATION:

On page 1, above line 1, please insert the following paragraphs:

--CROSS REFERENCE TO RELATED APPLICATIONS

Applicants claim priority under 35 U.S.C. §119 of German Application No. 102 40 924.2 filed on September 2, 2002. Applicants also claim priority under 35 U.S.C. §365 of PCT/DE2003/002810 filed on AUGUST 20, 2003. The international application under PCT article 21(2) was not published in English.

The invention relates to a thermo-hydrodynamic force amplifier.--

On page 3, after the second complete paragraph, please insert the following paragraphs:

--In an effort to resolve a similar problem, *U.S. Patent No. 2,963,853* discloses a thermo-hydrodynamic force amplifier in which a piston and cylinder arrangement and a solid crankshaft are arranged in a machine. Within the cylinder, the piston traverses a compression chamber, an expansion chamber and a working chamber. As the piston reciprocates within one cycle, a control connecting rod, which is formed separate from the piston and is fastened together with the latter to the crankshaft, connects a valve control system via various conduits so that a fluid is conducted via conduits each provided for this purpose and controlled by valves through a heater, a cooler and a regenerator during the reciprocation of the piston.

--The invention is particularly concerned with providing a force amplifier offering both improved efficiency and enhanced operational safety as compared to U.S. Patent No. 2,963,853.

--This object is solved by a thermo-hydrodynamic force amplifier in which a liquid is displaced between a hot region and a cold region within a rigid cylinder by means of a driven auxiliary piston through conduits of a heater-generator-cooler arrangement or of a heater-recuperator-cooler arrangement so that the liquid cyclically contracts and expands, thereby providing output work that in each cycle is greater than an input work at the auxiliary piston, said force amplifier being characterized in that the liquid in the arrangement is cyclically displaced in alternating flow directions and produces the output work at a separate machine. --